

rad/sec)/(interpolymer Viscosity measured at 190°C with a shear rate of 100 rad/sec) + [3.82 – interpolymer Mooney Viscosity (ML₁₊₄ @ 125°C)] x 0.3.

2. (Original) The interpolymer of Claim 1, wherein the interpolymer has (a) a weight ratio of ethylene to α -olefin within a range of from 90:10 to 10:90, the α -olefin being a C₃₋₂₀ α -olefin and (b) a diene monomer content within a range of from 0 to 25 percent by weight, based on interpolymer weight.

3. (Original) The interpolymer of Claim 1, wherein the interpolymer has a Mooney Viscosity (ML₁₊₄ at 125°C) within a range of from 0.5 to about 200.

4. (Original) The interpolymer of Claim 1, wherein the interpolymer has a molecular weight distribution (Mw/Mn) of at least 2.0.

5. (Original) The interpolymer of Claim 4, wherein the molecular weight distribution is at least 2.5 and the PRR is at least 8.

6. (Original) The interpolymer of Claim 1, wherein the interpolymer is an EAODM interpolymer with a molecular weight distribution of at least 2.3, a Mooney Viscosity (ML₁₊₄ at 125°C) of at least 15 and a PRR of at least 20.

7. (Original) The interpolymer of Claim 1, wherein the interpolymer is an ethylene/octene-1 copolymer with a molecular weight distribution of at least 2.3, a Mooney Viscosity (ML₁₊₄ at 125°C) of at least 5.

8. (Original) The interpolymer of Claim 2, wherein the alpha-olefin is selected from the group consisting of propylene, butene-1, pentene-1, 4-methyl-pentene-1, hexene-1, octene-1, styrene, p-methyl styrene and mixtures thereof, and the optional diene monomer is selected from the group consisting of 5-ethylidene-2-norbornene, 5-vinylidene-2-norbornene, 5-methylene-2-norbornene, 1,4-hexadiene, 1,3-pentadiene, 7-methyl-1,6-octadiene, 1,3-butadiene, 4-methyl-1,3-pentadiene, 5-methyl-1,4-hexadiene, 6-methyl-1,5-heptadiene and mixtures thereof.

9. (Original) The interpolymer of Claim 2, further comprising a PRR enhancing amount of an additional diene monomer, the additional diene monomer being selected from the group consisting of dicyclopentadiene, norbornadiene, 1,7-octadiene, and 1,9-decadiene.

Claims 10-17 (Cancelled)

18. (Original) An article of manufacture having at least one portion thereof fabricated from a composition that comprises the interpolymer of Claim 1.

19. (Original) The article of claim 18, wherein the article is selected from the group consisting of wire and cable components, electrical insulation, belts, hoses, tubes, gaskets, membranes, molded goods, extruded parts, automotive parts, adhesives, tire walls and tires.

20. (Original) The article of Claim 18, wherein the composition further comprises at least one additive selected from the group consisting of fillers, fibers, plasticizers, oils, colorants, stabilizers, foaming agents, retarders, accelerators, and cross-linking agents.

21. (Original) An polymer blend composition, the composition comprising more than 50 parts by weight of a crystalline polyolefin resin and less than 50 parts by weight of the interpolymer of Claim 1, the total amount of crystalline polyolefin resin and interpolymer being 100 parts by weight.

22. (Original) A thermoplastic vulcanizate composition, the composition comprising from 60 to less than 10 parts by weight of a crystalline polyolefin resin and from 40 to more than 90 parts by weight of the interpolymer of Claim 1 wherein the interpolymer is at least partially cross-linked such that the composition has a gel content of at least 70 %, based on interpolymer weight, the total amount of crystalline polyolefin resin and interpolymer being 100 parts by weight.

23. (Currently Amended) The composition of Claim 21~~or~~22, wherein the crystalline polyolefin resin is a polypropylene homopolymer, a copolymer of propylene with an α -olefin selected from the group consisting of ethylene, 1-butene, 1-pentene, 1-hexene, 1-octene, 2-methyl-1-propene or 4-methyl-1-pentene, or a blend of a polypropylene homopolymer and a propylene/ α -olefin copolymer or a mixture thereof.

24. (Original) The composition of Claim 23, wherein the α -olefin is ethylene.

25. (Currently Amended) An article of manufacture fabricated from the composition of any of Claims 21-24. and 26-27.

26. (New) The composition of Claim 22, wherein the crystalline polyolefin resin is a polypropylene homopolymer, a copolymer of propylene with an α -olefin selected from the group consisting of ethylene, 1-butene, 1-pentene, 1-hexene, 1-octene, 2-methyl-1-propene or 4-methyl-1-pentene, or a blend of a polypropylene homopolymer and a propylene/ α -olefin copolymer or a mixture thereof.

27. (New) The composition of Claim 26, wherein the α -olefin is ethylene.